

What is claimed is:

1. A sealing apparatus, comprising:

a pair of upper and lower seal blocks located across a transfer track of a tube film accommodating materials at equal spaces, for clamping the tube film between the materials;

a pair of seal bars provided inside skirt parts of the seal blocks;

a cutting edge attached to one of the seal bars;

an edge receiving groove formed in the other of the seal bars, for receiving the cutting edge to cut the tube film; and

narrow continuous standing gaps formed in part of a space between opposite edges of the respective skirt parts,

whereby air in a front tube film in a transfer direction of the film is evacuated to the outside of the seal block through the narrow continuous standing gaps and the edge receiving groove,

wherein

(a) the narrow continuous standing gaps formed by cutting the opposite edges of the respective skirt parts comprises pairs of upper and lower teeth opposing to each other, and a plurality of parallel air passage portions each between the respective pairs of teeth, while a plurality of ports respectively formed on opposite sides of the narrow continuous standing gaps are connected to a vacuum tank having a vacuum pump as a vacuum source thereof, via a sub-vacuum line, whereby upper and lower faces of the cut portion of the tube film are separated apart along the narrow gap and parallel air passage gaps by means of vacuum suction force action on the sub-vacuum line, and

(b) air inside the front tube film to be evacuated to the outside of the seal block through the cutting edge receiving groove is sucked through a main-vacuum line connecting the seal block and the vacuum tank.

2. The apparatus according to claim 1, wherein the sub-vacuum line has a first opening and closing valve and the main-vacuum line has a second opening and closing valve, whereby both of the first and second opening and closing valves are opened substantially simultaneously when the pair of seal blocks clamp the tube film and the cutting edge cuts the tube film.

3. The apparatus according to claim 2, wherein the second opening and closing valve is opened slightly later than the first opening and closing valve.

4. The apparatus according to claim 1, wherein a cooling water drain passage is formed in a pair of attached blocks formed with the narrow continuous standing gaps and the tunnel-shaped air passage gaps are embedded in the opposite edges of the skirt parts by cutting the opposite edges of the skirt parts.